

## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,580	580 06/06/2002		David John Roberts	B0192/7035	8724
23628	7590	08/15/2005		EXAMINER	
		LD & SACKS, PC	EWOLDT, GERALD R		
FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE				ART UNIT	PAPER NUMBER
BOSTON, I	BOSTON, MA 02210-2211			1644	
				DATE MAILED: 08/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		· · · · · · · · · · · · · · · · · · ·				
		Application No.	Applicant(s)			
	0.55	10/019,580	ROBERTS ET AL.			
	Office Action Summary	Examiner	Art Unit			
		G. R. Ewoldt, Ph.D.	1644			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address -			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 21 D	ecember 2001.				
2a)	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.	·			
3)□						
Disposit	ion of Claims					
5)□ 6)□ 7)⊠	Claim(s) <u>1-82</u> is/are pending in the application 4a) Of the above claim(s) <u>See Continuation Sh</u> Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) <u>5-9,13-16,20-26,30-32,37-39,43,48-5</u> Claim(s) <u>See Continuation Sheet</u> are subject to	eet is/are withdrawn from consider	cted to.			
Applicati	ion Papers					
9)[	The specification is objected to by the Examine	r.				
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	•	•			
Priority ι	under 35 U.S.C. § 119	0				
12) a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  Certified copies of the priority document  Certified copies of the priority document  Copies of the certified copies of the priority document  application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on Noed in this National Stage			
•			·			
Attachmen  1) Notice	t(s) e of References Cited (PTO-892)	A) 🗖 Jahan Jawa Comerce -	(DTO 412)			
2)  Notic	e of References Cited (PTO-692) of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail Da	nte			
3) 🔲 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5)  Notice of Informal P	atent Application (PTO-152)			

W

Continuation of Disposition of Claims: Claims withdrawn from consideration are 5-9,13-16,20-26,30-32,37-39,43,48-50,58-60,65-72,78 and 82.

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 1-4,10-12,17-19,27-29,33-36,40-42,44-47,51-57,61-64,73-77 and 79-81.

Application/Control Number: 10/019,580

Art Unit: 1644

## DETAILED ACTION

Page 2

1. Restriction is required under 35 U.S.C. 121 and 372.

- 2. Note that Claims 5-9, 13-16, 20-26, 30-32, 37-39, 43, 48-50, 58-60, 65-72, 78, and 82 are objected to and withdrawn from consideration for being non-statutory "Use" type claims or being improperly multiply dependent.
- 3. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1:
- I. Claims 1-4, drawn to a method of treating dendritic cells (DCs) in vitro employing a CD36 and/or a CD51 agonist.
- II. Claims 10-12 and 17-19, drawn to a method of identifying an agonist of CD36 and/or a CD51 employing an immature DC.
- III. Claims 27-29, drawn to a pharmaceutical composition comprising a CD36 agonist.
- IV. Claims 33-36, drawn to a pharmaceutical composition comprising a CD51 agonist.
- V. Claims 40-42, drawn to a method of identifying an agonist of CD36 and/or a CD51 employing antigen presenting cells (APCs).
- VI. Claims 44-47, drawn to a method of treating APCs in vitro employing an agonist of CD36 and/or a CD51.
- VII. Claims 51-52, drawn to a method of identifying a  $\boldsymbol{\beta}$  integrin agonist.
- VIII. Claims 53-54, drawn to a pharmaceutical composition comprising a  $\beta$  integrin agonist.
- IX. Claims 55-57, drawn to a method of treating APCs ex vivo employing a  $\beta$  integrin agonist.
- X. Claims 61-62, drawn to a pharmaceutical composition comprising a thrombospondin (TSP) receptor agonist.

Application/Control Number: 10/019,580

Art Unit: 1644

XI. Claims 63-64, drawn to composition comprising apoptotic cells.

Page 3

- XII. Claims 73-77 and 79-81, drawn to a method of identifying a molecule capable of preventing the adherence of red blood cells infected with a malarial parasite to DCs.
- 4. The inventions listed do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

WO 95/05191 (IDS) teaches the pharmaceutical composition of Groups X.

Since Applicant's inventions do not contribute a special technical feature when viewed over the prior art they do not have single general inventive concept and lack unity of invention.

- 5. Accordingly, Groups I-XII are not so linked as to form a single general inventive concept and restriction is proper.
- 6. Additionally, should Applicant elect Group I, III, or V, Applicant is required to elect a specific CD36 agonist, such as one of those set forth in Claim 1.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. It is noted that no paper copy of the Sequence Listing has been found in the application. It is requested that Applicant submit an original/additional copy.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Gerald Ewoldt whose telephone number is (571) 272-0843. The examiner can normally be reached Monday through Thursday from 7:30 am to 5:30 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841.

-

Application/Control Number: 10/019,580

Art Unit: 1644

10. Please Note: Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 4

G.R. Ewoldt, Ph.D.

Primary Examiner

Technology Center 1600